

Title (en)  
LINEARLY ACTUATED AUTOMATIC FRESH AIR EXCHANGE

Title (de)  
LINEAR BETÄTIGTER, AUTOMATISCHER FRISCHLUFTAUSTAUSCH

Title (fr)  
ECHANGE D'AIR FRAIS AUTOMATIQUE D'ACTIONNEMENT LINEAIRE

Publication  
**EP 1787074 A4 20110615 (EN)**

Application  
**EP 05775028 A 20050720**

Priority

- US 2005025864 W 20050720
- US 90160504 A 20040729

Abstract (en)  
[origin: US6945071B1] Fresh air exchange is achieved by uncovering two ports which, respectively, allow stale air to leave the trailer through a high pressure duct and fresh outside air to enter the trailer through a low pressure duct. The trailer end of the ducts are connected to the refrigeration unit evaporator section where the evaporator fan provides the pressure differential. The opposite ends of the ducts are connected to a bracket mounted on the refrigeration unit frame and are exposed to the outside fresh air through a hole in the refrigeration unit's grille when the cover over the ducts has been opened by the linear solenoid under the control of the microprocessor.

IPC 8 full level  
**B60H 1/26** (2006.01); **B60H 1/32** (2006.01); **F25D 11/00** (2006.01); **F25D 17/04** (2006.01); **F25D 17/06** (2006.01); **F25D 29/00** (2006.01)

CPC (source: EP US)  
**B60H 1/00014** (2013.01 - EP); **B60H 1/26** (2013.01 - EP US); **F25D 11/003** (2013.01 - EP US); **F25D 17/042** (2013.01 - EP US); **F25D 29/003** (2013.01 - EP US)

Citation (search report)

- [X] US 2003159595 A1 20030828 - KIEFER DAVID D [US], et al
- [I] US 4716739 A 19880105 - HARRIS SAMUEL [NZ], et al
- [A] WO 0183317 A1 20011108 - MITSUBISHI AUSTRALIA LTD [AU], et al
- [A] JP S58102191 U 19830712
- [A] US 6763677 B1 20040720 - BURCHILL JEFFREY J [US], et al
- [A] US 3673733 A 19720704 - ALLEN MERTON
- See references of WO 2006014774A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**US 6945071 B1 20050920**; EP 1787074 A1 20070523; EP 1787074 A4 20110615; EP 1787074 B1 20131211; WO 2006014774 A1 20060209

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